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THE ZOOLOGICAL RECORD

VOLUME 98 SECTION 2 1961

PROTOZOA

COMPILED BY

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LONDON
PUBLISHED BY
THE ZOOLOGICAL SOCIETY OF LONDON

PRICE TWENTY SHILLINGS ($2.82)
1964

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VOL. 98
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2. PROTOZOA

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FOREWORD

Papers dealing with Protozoa entirely from a medical or veterinary standpoint (clinical, therapeutic etc.) are omitted, but notices of these will be found in *Tropical Diseases Bulletin* and *Veterinary Bulletin*.

I.—TITLES

The year of publication has been omitted where it is the same as the volume year of the "Record" (1961).

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Division.—Mitosis of protozoa, **Mazia,** D. (2); Cytoplasmic division in *Entamoeba histolytica*, **Shaffer,** J. G., **Scanlan,** T. M. & **Iralu,** V.; Fine structure of spindle fibres in *Pelomyxa carolinensis*, **Roth,** L. E. & **Daniels,** E. W.; Electronmicroscopy of mitosis in *Pelomyxa illinoisensis*, **Daniels,** E. W. (2); Mitosis in Radiolaria, **Cachon-Enjumet,** M. (2); Mitosis in *Euglena viridis*, **Saito,** M.; Light induced division synchrony in *Euglena gracilis bacillaris*, **Cook,** J. R. & **James,** T. W.; Functions of centrioles in *Trichomonas*, **Cleveland,** L. R. (2); Chromosome pairing and segregation in *Holomastigstoides*, **Cleveland,** L. R. (3); Fertilization in *Eucomonympha*, **Cleveland,** L. R. (1); Chromosome cycle in a gregarine *Gregarina poecilocerum*, **Narasimhamurti,** C. C. & **Ganapati,** P. N.; Role of the cytoplasm during schizogony in *Plasmodium lophurae*, **Rudzinska,** M. A. & **Trager,** W.; Cell division of *Toxoplasma*, **Lund,** E. **Lycke,** E. & **Sourander,** P. (1); Thermal increments and temperature coefficients for fission in *Colpoda*,

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Guillard, R. R. L. & **Wangersky**, P. J.; Effect of temperature on growth of marine phytoflagellates, **Ukeles**, R.; Photosynthesis of phytoplankton, **Vinberg**, G. G. & **Sirko**, T. N.; Effect of perchlorate on growth of phytoflagellates, **Greenhalgh**, R. & **Riley**, J. P.; Glutathione and anaerobiosis and flagellates of *Cryptocercus*, **Ritter**, H.; Vitamin B_{12} and yield of *Monochrysis lutheri*, **Droop**, M. R. (1); Nutrient storage, exchange with sediments, turnover rates, dilution and distribution need by algae in Lake Washington, **Edmondson**, W. T.; Photosynthesis of phytoplankton in relation to total alkalinity, **Jackson**, D. F.; Photosynthetic rhythm in *Gonyaulax polyerra*, **Sweeney**, B. J.; C^{14}-uptake in *Glenodinium*, **Gold**, K. & **McLaughlin**, J. J. A.; Methionine synthesis in *Ochromonas malhamensis*, **Dalal**, F. R., **Rege**, D. V. & **Sreenivasan**, A.; Ethanol and oxidation in *Euglena gracilis*, **Buetow**, D. E.; Streptomycin and chlorophyll in *Euglena gracilis*, **Rosen**, W. G. & **Gawlik**, S. R.; B_{12} accumulation in *Euglena gracilis*, **Sekhara Varma**, T. N. etc.; Endogenous metabolism of *Euglena gracilis*, **Danforth**, W. F. & **Wilson**, B. W.; Assimilation of acetate by *Euglena*, **Danforth**, W. F.; Biosynthetic rates in *Euglena gracilis*, **Cook**, J. R.; Uptake of cesium[37] by *Euglena intermedia*, **Williams**, L. G.; Nutrition and metabolism in *Chlamydobotrys*, **Pringsheim**, E. G. & **Wiessner**, W.; Thiophosphate and metabolism of *Polytomella agilis*, **Canton**, M. H. & **James**, T. W.; Alcohol nutrition of *Polytomella caeca*, **Wise**, D. L. etc.; Impaired photosynthesis in *Chlamydomonas reinhardi* (mutants), **Levine**, R. P. & **Volkmann**, D.; Absorption of acid nutrients by *Polytomella caeca*, **Wise**, D. L.; Anaerobic metabolism of *Crithidia fasciculata*, **Schwartz**, J. 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G. etc.; Effect of chemicals on division rate of *Paramecium*, **McManus**, M. A. & **Sullivan**, K.; Respiration and autogamy in *Paramecium aurelia*, **Pringle**, C. R. & **Stewart**, J. M.; N metabolism in *Paramecium aurelia*, **Soldo**, A. T. & **Wagtendonk**, W. J. van; Effect of pH on food vacuole size in *Paramecium multimicronucleatum*, **Lee**, J. W. & **McCall**, W.; No toxic effects on growth or reproduction observed when *Paramecium caudatum* and *Tetrahymena gelii* were placed in *Physalia* toxin, **Lane**, C. E., **Coursen**, B. W. & **Hines**, K.; Protein synthesis in pyrimidine-starved *Tetrahymena pyriformis*, **Lederberg**, S. & **Mazia**, D.; Effect of morphine on *Tetrahymena pyriformis* metabolism and growth, **Schuster**, G. L., **Henry**, W. B. & **Vennes**, J. W.; Influence of uracil and nucleotides on *Tetrahymena pyriformis* growth, **Slater**, J. V.; Circulation of food vacuole in *Paramecium caudatum*, **Lubocka**, A. & **Dembowski**, J.; Protein factor in nutrition of *Paramecium caudatum*, *Naegleria gruberi*, **Willmer**, E. N. (1); Effect of **Lilly**, D. M. & **Klosek**, R. C.; Reciprocal stimulation in growth of *Paramecium caudatum* nad *Stylonychia pustulata*, **Lilly**, D. M., **Herbst**, B. A. & **Stillwell**, R. H. (1); Micronucleus and nucleic acid accumulation in *Paramecium caudatum*, **Gintsburg**, G. S.; Phagotrophy in *Tetrahymena*, **Seaman**, G. R.; Ion regulation in *Tetrahymena*, **Dunham**, P. B. & **Child**, F. M.; K-accumulation in *Tetrahymena pyriformis*, **Conner**, R. L. & **Pruett**, P. O.; N and K regulators in *Tetrahymena pyriformis*, **Andrus**, W. W. De W. & **Giese**, A. C.; Orthophosphate accumulation in *Tetrahymena pyriformis*, **Conner**, R. L. etc; Amino acids and folic acid in *Tetrahymena pyriformis*, **Singer**, S.; Growth and division in *Tetrahymena pyriformis*, **Cameron**, I. L. & **Prescott**, D. M.; Synchronous divisions in *Tetrahymena pyriformis*, **Schuster**, G. L. & **Venner**, J. W.; Division and protein synthesis in *Tetrahymena pyriformis*, **Zeuthen**, E.; RNA synthesis and transfer in *Tetrahymena pyriformis*, **Prescott**, D. M.; Metabolism of L-phenylalanine in *Tetrahymena pyriformis*, **Roth**, J. S. & **Eichel**, H. J.; Sterol requirement of *Tetrahymena paravorax*, **Holz**, G. G. etc.; Growth and polymorphism in *Tetrahymena patula*, **Stone**, G. E.; Feeding mechanism of *Blepharisma undulans*, **Switzer**, S.; Effect of plant protein on growth of *Entodinium*, **Einszporn**, T.; Growth of *Anoplodinium* in media based upon different plants, **Gradzka-Majewska**, I.; Division of *Blepharisma undulans* after X-radiation, **Giese**, A. C. & **Lusignan**, M. W.; Ingestion of nematodes by *Urostyla*, **Doncaster**, C. C. & **Hooper**, D. J.; Respiration of *Anaplasma marginale*, **Pilcher**, K. S., **Wu**, W. G. & **Muth**, O. H.; Food specificity in protozoa, **Canella**, M. F. (1); Importance of growth rate, feeding experiments and O_2 consumption on determining foraminiferal faunal compositions, **Bradshaw**, J. S.; Growth and physiology of Foraminifera in the laboratory, **Lee**, J. J., **Pierce**, S., **Tentchoff**, M. & **McLaughlin**, J. J. A.; Metabolism of Foraminifera, secondary oscillations in deep-sea cores, **Wiseman**, J. D. H.; General metabolism and suction mechanisms in Suctoria, **Canella**, M. F. (1).

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Rivulogammarus pulex pulex, gills ; *Spirochona gemmipara*, *Lagenophrys* sp. and *Dendrocometes paradoxus* (Germany), **Fritz,** H.

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Echinodermata.—Sea urchins : ciliates in gut, **Fukui,** T. **&** **Uemura,** M. **(1), (2)** ; Echinoidea : ciliates of gut, **Fukui,** T. **&** **Uemura,** M. **(1), (2)** ; **Uemura,** M. **(1)** ; Ciliates in Hawaiian sea-urchins, **Heckmann,** R. **(3)** ; Japanese echinoderms : *Entorhipidium tenus* and *Metopus circumlabens*, **Uemura,** M. **(2).**

Allocentrotus fragilis, gut (U.S.A.) ; ciliate fauna, **Berger,** J. **&** **Profant,** R. J.

Clypeaster rosaceus (Bahamas) : ciliates — *Cyclidium rhabdodectum*, *Entodiscus sabulonis*, **Berger,** J. **(4).**

Diadema antillarum (Bahamas) : ciliates — *Anophrys elongata*, *Biggaria bermudensis*, *B. echinometris*, *Metopus circumlabens*, **Berger,** J. **(4).**

Echinometra lucunter (Bahamas) : ciliates — *Anophrys elongata*, *Biggaria bermudensis*, *B. echinometris*, *Metopus circumlebens*, **Berger,** J. **(4).**

Holothuria tubulosa and *H. stellati*, haemal sinus tissues near digestive system, *Cystobia grassei* **sp. n.** (Gregarinida), **Changeux,** J.-P.

Lytechinus anamesus (California, U.S.A.) : ciliates —*Biggaria gracilis*, *Cryptochilum* sp., *Entodiscus borealis*, **Berger,** J. **(4).**

Lytechinus variegatus (Bahamas) ; *Anophrys elongata*, *Biggaria bermudensis*, *B. echinometris*, **Berger,** J. **(4).**

Lytechinus variegatus (U.S.A.) : ciliates—*Anophrys elongata*, *Biggaria bermudensis*, *B. echinometris*, **Berger,** J. **(4).**

Ciliates of *Strongylocentrotus dröbachiensis*, **Beers,** C. D. **(3).**

Strongylocentrotus dröebachiensis, *S. echinoides*, *S. franciscanus*, *S. purpuratus* ; *Schizocaryum dogieli* (Trichostomatida) in anterior fat (U.S.A.), **J. Berger (1).**

Strongylocentrotus drœbachiensis (U.S.A.) : following ciliates—*Biggaria gracilis, Cryptochilidium caudatum, C. minor, Entorhipidium echini, E. pilatum, E. tenne, E. triangularis, Lechriopyla mystax, Trichodina* sp., **Berger, J. (4).**

Strongylocentrotus echinoides (U.S.A.) : ciliates—*Biggaria fracilis, Cryptochilidium caudatum, C. sigmoides, Entorhipidium echini, E. pilatum, E. triangularis, Euplotes balteatus, Lechriopyla mystax, Trichodina* sp., **Berger, J. (4).**

Strongylocentrotus franciscanus (U.S.A.) : ciliates—*Biggaria gracilis, Cryptochilidium caudatum, C. minor, C. sigmoides, Cyclidium stercoris, Entorhipidium pilatum, E. tenne, E. triangularis, Euplotes balteatus, Lechriopyla mystax, Madsenia indomita, Trichodina* sp., **Berger, J. (4).**

Strongylocentrotus purpuratus (U.S.A.) : ciliates—*Biggaria gracilis, Cryptochilidium minor, Cyclidium stercoris, Entodiscus borealis, Entorhipidium tenne, Euplotes balteatus, Lechriopyla mystax, Trichodina* sp., **Berger, J. (4).**

Tripneustes ventricosus (Bahamas) : *Anophrys elongata, Biggaria bermudensis, B. echinometris, Metopus circumlabens*, **Berger, J. (4).**

Mollusca.—Snails and slugs (U.S.A.) infected with *Colpoda aspersa*, **Burch, J. B.** ; Snails, digestive gland (U.S.A.) ; *Aaplosporidium pickfordi* sp. n., **Barrow, J. H., Jr.** ; Urceolariidae from Polish molluscs, **Raabe, J. & Raabe, Z.**

Acmaea cassis, gill (Canada) ; *Scyphidia ubiquita* (Peritrichida), **Laird, M. (5).**

Acmaea fenestralis, gill (Canada) ; *Trichodina vancouverense* sp. n., *T. decipiens* sp. n. (Peritrichida), **Laird, M. (5).**

Cochlodina laminata, mantle (Poland) ; *Semitrichodina conveza* sp. n., **Kazubski, S. L.**

Isnochiton ruber : *Urceolaria karyodactyla* sp. n. in mantle cavity and on ctenidia, **Laird, M. (2).**

Katharina tunicata : *Hypocomella katharinae* sp. n. (Thigmotrichida) on ctenidia off Oregon, **Kozloff, E. N.**

Macoma secta : a trichodinid (? *Cyclocheata domerquei*) in siphon (California, U.S.A.), **Caskey, F. H. & Edgerly, C. E.**

Mytilus edulis foot, *Conchophthirus mytili* (Holotrichida, Thigmotrichina), **Beers, C. D. (1).**

Annelida.—Earthworms, intestine (Wales) ; *Metaradiophyra* spp. (Ciliata), **Rees, B. (2).**

Aelosoma travancorense : *Radiophryoides puytoraei* in gut (India), **Vanamala Naidu, R.**

Allolobophora caliginosa, body cavity (Wales) ; *Monocystis lanceata* sp. n. (Gregar.), **Rees, B. (1).**

Dichogaster inermis (France) : *Lomiella* **gen. n.** (Astomatidae), **Puytorac, P. de (2).**

Dinophilus gyrociliatus ; *Ecoccidium dinophili* (Coccidia), **Stössel-Müggе, E.**

Eisenia foetida (Wales) ; *Monocystis cambrensis* sp. n., *M. elongata* (Gregar.), **Rees, B. (1).**

Eudistylia vancouveri : *Ignotocoma sabellarum* gen. n., sp. n. (Thigmotrichida) : Oregon coast, **Kozloff, E. N.**

Lumbricidae, alimentary tract, *Metaradiophrya* (posterior part), *Anoplophrya* (centre) and *Maupasella* (anterior) (Apostomata), **Lom, J. (6).**

Rhizodrilus pilosis intestine (Baltic Sea) ; *Helella rhizodrili* gen. n., sp. n. (Astomatida), **Kaczanowski, A. (1).**

Schizobranchia insignis : *Ignotocoma sabellarum* gen. n., sp. n. (Thigmotrichida) : Oregon coast, **Kozloff, E. N.**

Platyhelminthes :

Dugesia lugubris : *Trichodina* sp., **Bondi, C.**

Coelenterata :

Hydra (U.S.A.) ; *Plistophora* sp. (Microsporid.), **Spangenberg, D. B. & Claybrook, D. L.**

Protozoa :

Biomyza vagans : spirochaete, **Jarosch, R. & Kiermayer, O.**

Plantae :

Euphorbia hirta (Costa Rica) ; *Phytomonas davidi* (Mastigophora), **Ruiz, A.**

Euphorbia spp. (Madagascar) ; *Leptomonas davidi*, **Tuzet, O. & Cabanis, Y.**

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Sipunculus, gut (Hawaii) ; gregarines observed, **Heckmann, R. (2).**

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Amoebiasis.—Review of the biology and biochemistry of *E. histolytica*, **Faust, E. C.**

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Comparison of the incidence of intestinal parasites in amoebic and bacillary dysentery, **Powell, S. J. etc.**

Incidence of *Entamoeba histolytica* in Italy, **Carneri, I. de.**

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Incidence of *Entamoeba histolytica* in Portugal and overseas territories, **Fraga de Azevedo, J.**

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Incidence of *Entamoeba histolytica* in the Congo, **Jadin, J.**

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Absence of toxin in *Entamoeba histolytica*, **Maiorca, G. & Magaudda-Borzi, L.**

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Influence of intestinal bacteria on virulence of *Entamoeba histolytica*, **Deschien, R.**

Virulence of Russian *Entamoeba histolytica* for rats, **Schensnovich, V. B. & Soloviev, M. M.**

Ulceration in *E. histolytica* infections, **Barretto, M. P. & Silva, G. A. da.**

Relation between form of *Entamoeba histolytica* in stools with clinical condition, **Schensnovich, V. B.**

Epidemiology of outbreaks of amoebic dysentery, **Boyd, J.**

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Amoebic infection of liver without abscess formation, **Doxiades, T. & Candreviotis, N.**

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Colitis in dogs caused by salmon diet not *E. histolytica*, **Artigas, J. & Beaver, P. C.**

Increase of serum γ-globulin of guinea pigs infected with virulent *E. histolytica*, **Atchley, F. O., Arernheimer, A. H. & Wasley, M. A.**

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Vector of cutaneous leishmaniasis in West Africa, **Larivière, M., Abonnec, E. & Kramer, R.**

Human cases acting as reservoir of cutaneous leishmaniasis, **Eliseyev, L. N.**

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Occurrence, transmission and epidemiology of visceral leishmaniasis, **Alencar, J. E. de.**

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Human infections with reptilian *Leishmania*, **Manson-Bahr, P. E. C. & Heisch, R. B.**

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Trypanosomiasis :

Recent research on African trypanosomiasis, **Willet, K. C. (1).**

Trypanosome infection rates in *Glossina*, **Ford, J. & Leggate, B. M.**

Agglutination test for *brucei* group trypanosomes, **Cunningham,** M. P. & **Vickerman,** K. **(1).**

Isolation of *T. rhodesiense* from *Glossina palpalis*, **Southon,** H. A. W. & **Robertson,** D. H. H.

Spread of *Trypanosoma rhodesiense* in epidemic form, **Ormerod,** W. E. **(3).**

Spread and eradication of Gambian trypanosomiasis from the Sudan, **Morris,** K. R. S.

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Natural *Trypanosoma cruzi* infections in U.S.A., **Wood,** S. F. & **Wood,** F. D.

Incidence of *Trypanosoma cruzi* in Chile, **Schenone,** H. etc.

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Discovery of *Trypanosoma cruzi* during malaria survey, **Rodrigues,** D. C., **Ribeiro,** A. de & **Alves,** U. P.

Production of toxin by *Trypanosoma cruzi*, **Jaffé,** R. etc.

Killing *T. cruzi* in blood for transfusions, **Kloetzel,** J.

Protection of mice from virulent *Trypanosoma cruzi* by prior avirulent infection, **Kagan,** I. G. & **Norman,** L.

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Increased incidence of cattle trypanosomiasis by rat inoculation, **Godfrey,** D. G. & **Killick-Kendrick,** R.

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Trichomoniasis :

Serological study of human species of *Trichomonas*, **Kott,** H. & **Adler,** S.

Trichomonas vaginalis not transmitted by water, **Teras,** Y. H. & **Nigesen,** U. K.

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Virulence of *Trichomonas hominis*, **Mohanty,** J. K. & **Das,** B. N.

Other Mastigophora :

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The occurrence of *Eimeria ah-sa-ta* and *E. crandallis* in Alabama U.S.A., **Smith,** W. N. & **Davis,** L. R. **(1).**

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Cross infection of sheep and goat coccidia, **Lotze,** J. C. etc.

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Distribution of malaria and vectors in Congo and Ruanda-Urundi, **D'Haenens,** G., **Lips,** M. & **Meyus,** H.

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Elimination of *Babesia argentina* and *Theileria mutans* from *B. bigemina*, **Callow,** L. L. & **Hoyte,** H. M. D. (1).

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Buliminella morgani (p. 87) **sp. n.** Mississippi River mudlumps, **Andersen,** H. V. ; *B. latissima* **sp. n.** (p. 387) Great Barrier Reef, **Collins,** A. C.

Canepaia **gen. nov.** (p. 74) of Reophacidae, genotype *C. brasiliensis* **sp. n.** (p. 74) ; Brazilian continental platform, lat. 22·5° –30·5° S, **Boltovskoy,** E. **(2).**

Carpenteria tapitia (p. 392) **sp. n.** off Brazil, **Narchi,** W. **(1).**

Cassidulina bradshawi (p. 68). *C. subcarinata* (p. 68) **spp. n.** off California, **Uchio,** T. **(2).**

Cassidulinoides waltoni **sp. n.** (p. 69) ; off California, **Uchio,** T. **(2).**

Ceratobulimina arctica (p. 71) **sp. n.** Arctic Ocean, **Green,** K. E.

Chrysalidinella popei (p. 96) **sp. n.** Mississippi River mudlumps, **Andersen,** H. V.

Cibicides phlegeri **sp. n.** (p. 69) ; off California, **Uchio,** T. **(2).**

Conorbella earlandi **sp. n.** (p. 405) Great Barrier Reef, **Collins,** A. C.

Cornuspira lajollaensis **sp. n.** (p. 57) ; San Diego area, California, **Uchio,** T. **(2).**

Cornuspiroides compressa (p. 30) **sp. n.** Travancore coast, **Amma,** J. S.

Cribrobigenerina **gen. n.** (p. 26) of Textulariidae, type sp. *C. parkerae* (p. 26) **sp. n.** Mississippi River mudlumps, **Andersen,** H. V.

Dentostomina besnardii (p. 75) **sp. n.** off Brazil, **Narchi,** W. **(2).**

Discobotellina **gen. n.** of Hyperammininae (p. 342), type sp. *D. biperforata* (p. 343) **sp. n.** Great Barrier Reef, **Collins,** A. C.

Discorbis subvesicularis **sp. n.** (p. 401) [as *D. subvesicularia*, p. 341] Great Barrier Reef, **Collins,** A. C.

Discorinopsis tropica **sp. n.** (p. 406) Great Barrier Reef, **Collins,** A. C.

Dorothia inepta **sp. n.** (p. 357) Great Barrier Reef, **Collins,** A. C.

Edentostomina **gen. n.** of Miliolidae (p. 371), type sp. *E. cultrata* Brady 1879, Great Barrier Reef, **Collins,** A. C.

Eggerella advena see under *Verneuilina europeum*, **Christiansen,** B. ; *E. australis* (p. 356), *E. polita* (p. 356) **spp. n.** Great Barrier Reef, **Collins,** A. C. ; *E. scrippsi* **sp. n.** (p. 56) ; San Diego area, California, **Uchio,** T. **(2).**

Elphidium longipontis (p. 59) **sp. n.** White Sea, **Stschedrina,** Z. G. ; *E. pacificum* **sp. n.** (p. 421) Great Barrier Reef, **Collins,** A. C.

Epistomariella milletti **sp. n.** (p. 411) Great Barrier Reef, **Collins,** A. C.

Epistominella arctica (p. 71) **sp. n.** Arctic Ocean, **Green,** K. E. ; *E. rugosa convexa* (p. 273) **subsp. n.** E. Mediterranean, **Parker,** F. L. **(1)** ; *E. sandiegoensis* **sp. n.** (p. 68) off California, **Uchio,** T. **(2).**

Eponides tumidulus horvathi (p. 71) **var. n.** Arctic Ocean, **Green,** K. E.

Fissurina radiata arcuata **subsp. n.** (p. 75) ; Brazilian continental platform, lat. 21°–23° S, **Boltovskoy,** E. **(2)** ; *F. wiesneri* **nom n.** pro *Lagena marginata* Walker & Boys var. *carinata* Wiesner 1931, non *F. carinata* Reuss 1863, non *L. quadrata carinata* Chapman 1909, **Barker,** R. W.

Frondicularia kiensis **nom. n.** pro *F. bradyi* Cushman 1913, non *F. bradyii* Silvestri 1903, proposed as *Lingulonodosaria*, **Barker,** R. W.

Gaudryina (*Pseudogaudryina*) *concava* **sp. n.** (p. 355) Great Barrier Reef, **Collins,** A. C.

Glandulina semistriata **sp. n.** (p. 386) Great Barrier Reef, **Collins,** A. C.

Globigenera Sowerby (G. B.) 1842 (an erroneous subsequent spelling for *Globigerina* d'Orbigny 1826) placed on the Official Index of Rejected and Invalid Generic Names, **Opinion 552.**

Globigerina d'Orb. 1826, and *G. bulloides* d'Orb. 1826, placed on the Official Lists of Generic and Specific Names, **Opinion 552** ; *G. antillensis* (p. 1156) ; *G. atlantis* (p. 1158) ; **spp. n.** Carribean–Antilles region, **Bermúdez,** P. J. (1) ; *G. incompta* (p. 84) **sp. n.** North Atlantic ; comparable to *G. dutertrei* d'Orb. 1839, **Cifelli,** R. ; *G. quadrilobata* d'Orb. 1846, lectotype should be rejected and name allowed to lapse, to retain *Globigerinoides sacculifer* (Brady), **Todd,** R. (2).

Globigerinida Carpenter, Parker & Jones 1862 (an invalid original spelling for Globigerinidae) placed on the Official Index of Rejected and Invalid Family–Group Names, **Opinion 552.**

Globigerinidae (correction of Globigerinida) Carpenter, Parker & Jones 1862, given precedence over Orbulinidae Schultze 1854, and placed on the Official List of Family–Group Names, **Opinion 552.**

Globigerinoides tenella (p. 280) **sp. n.** E. Mediterranean, **Parker,** F. L. (1).

Globobulimina australiensis **sp. n.** (p. 389) Great Barrier Reef, **Collins,** A. C. ; *G. hoeglundi* **sp. n.** (p. 64) ; San Diego area, California, **Uchio,** T. (2).

Globorotalia (*Beella*) **subgen. n.** (p. 26), subgenotype *Globigerina digitata* Brady 1879 (part.) emend. Banner & Blow 1959, Atlantic Ocean, **Banner,** F. T. & **Blow,** W. H. ; *G. ungulata* (p. 1304) **sp. n.** Caribbean–Antilles, **Bermúdez,** P. J. (1).

Globulotuba **gen. n.** of Polymorphinidae (p. 385), type sp. *Globulotuba entosoleniformis* **sp. n.** (p. 385) Great Barrier Reef, **Collins,** A. C.

Glomospira elongata **sp. n.** (p. 347) Great Barrier Reef, **Collins,** A. C.

Goesella waddensis **sp. n.** (p. 245) Dollart-Ems Estuary, **Voorthuysen,** J. H. van.

Gyroidina delicata **sp. n.** (p. 265) E. Mediterranean, **Parker,** F. L. (1) ; *G. quinqueloba* **sp. n.** (p. 66) ; off California, **Uchio,** T. (2).

Haplophragmoides inflata (p. 25) **sp. n.** Travancore coast, **Amma,** J. S. ; *H. neobradyi* (p. 51), *H. quadratus* (p. 52) **spp. n.** San Diego area, California, **Uchio,** T. (2) ; *H. sandiegoensis* (p. 69) **nom. nov.** pro *H. quadratus* Uchio 1960, **Uchio,** T. (4).

Hastigerinella Cushman 1927 (p. 24) emended, type sp. *Hastigerina digitata* Rhumbler 1911 (new binomen) (=*Hastigerinella rhumbleri* Galloway 1933), Atlantic Ocean, **Banner,** F. T. & **Blow,** W. H.

Hauerina pacifica rugosa (p. 367) **subsp. n.** Great Barrier Reef, **Collins,** A. C.

Helenia Saunders 1957, see *Helenina*, **Saunders,** J. B.

Helenina (p. 148) **nom. nov.** pro *Helenia* Saunders 1957 non Walcott 1889, type sp. *Helenina anderseni* (Warren 1957), **Saunders,** J. B.

Hippocrepinella suboviformis (p. 77) ; *H. sphaera* (p. 78) **spp. n.** White Sea, **Mayer,** E. M.

Involutina hoeglundi **sp. n.** (p. 51) ; San Diego area, California, **Uchio,** T. (2).

Iridia bitubulifera (p. 58) **sp. n.** White Sea, **Stschedrina,** Z. G.

Iridiella **gen. n.** (p. 57) of Saccamminidae, type sp. *I. marisalbi* (p. 57) **sp. n.** White Sea, **Stschedrina,** Z. G.

Islandiella **gen. n.** of Cassidulinidae (p. 26), type sp. *I. islandica* (=*Cassidulina islandica* Nørvang 1945) ; *I. vejlensis* (p. 33) **sp. n.,** genus also includes *Cassidulina norcrossi*, Cushman 1933, *C. californica* Cushman & Hughes 1925, *C. limbata* Cushman & Hughes 1925, *C. tortuosa* Cushman & Hughes 1925, *C. translucens* Cushman & Hughes 1925, *C. subglobosa* Brady var. *quadrata* Cushman & Hughes 1925, **Nørvang,** A.

Karreriella (*Karrerulina*) *attenuata* **sp. n.** (p. 358) Great Barrier Reef, **Collins,** A. C. ; *K. parkerae* **sp. n.** (p. 56) ; San Diego area, California, **Uchio,** T. (2).

Lagena distoma turgida **form. n.** (p. 76) ; Brazilian continental platform, **Boltovskoy,** E. (2) ; *L. halstedi* (p. 73) ; *L. inusitata* (p. 75) ; *L. mexicana* (p. 76) **spp. n.** Mississippi River mudlumps, **Andersen,** H. V.

Lituotuba minuta **sp. n.** (p. 347) Great Barrier Reef, **Collins,** A. C.

Lozostomum gelbi (p. 94) **sp. n.** Mississippi River mudlumps, **Andersen,** H. V.

Marsipella arenaria (p. 32) **sp. n.** Dröbak Sound, Norway, **Christiansen,** B.

Massilina crescentensis (p. 87) **sp. n.** intertidal Oregon, **Hamlin,** W. H. ; *M. stuckeyi* (p. 33) **sp. n.** Mississippi River mudlumps, **Andersen,** H. V. ; *M. subrugosa* (p. 361) **sp. n.,** *M. secans tropicalis* (p. 362) **subsp. n.,** *M. corrugata* (p. 362), *M. minuta* (p. 362). **spp. n.** Great Barrier Reef, **Collins,** A. C.

Miliammina fungidens (p. 78) **sp. n.** White Sea, **Mayer,** E. M.

Miliolinella warreni (p. 37) **sp. n.** Mississippi River mudlumps, **Andersen,** H. V.

Nodophthalmidium gracilis **sp. n.** (p. 372) Great Barrier Reef, **Collins,** A. C.

Nonion lankfordi (p. 60), *N. parkerae* (p. 60) **spp. n.** San Diego area, California, **Uchio,** T. (2).

(*?*) *Nonionella fragilis* **sp. n.** (p. 62) San Diego area, California, **Uchio,** T. (2).

Nonionidae collected by the S.S. " Soyo-maru " in continental shelf deposits off Japan from 1922–1930, **Asano,** K.

Nouria textulariformis armata **subsp. n.** (p. 352) Great Barrier Reef, **Collins,** A. C.

Nubeculopsis **gen. n.** of Ophthalmidiidae (p. 375), type sp. *Nubeculopsis queenslandica* **sp. n.** (p. 375) Great Barrier Reef, **Collins,** A. C.

Ophthalmidium circularis tropicalis **subsp. n.** (p. 373) Great Barrier Reef, **Collins,** A. C.

Orbulina d'Orb. 1839, and *O. universa* d'Orb. 1839, placed on the Official List of Generic and Specific Names, **Opinion 552.**

Orbulinida Schultze 1854 (an invalid original spelling for Orbulinidae) placed on the Official Index of Rejected and Invalid Family-Group Names, **Opinion 552.**

Orbulinidae (correction of Orbulinida) Schultze 1854, to take precedence below Globigerinidae Carpenter, Parker & Jones 1862, and placed on the Official List of Family-Group Names, **Opinion 552.**

Oridorsalis **gen. n.** (p. 107) of Discorbidae, type sp. *O. westi* (p. 107) **sp. n.** Mississippi River mudlumps, **Andersen,** H. V.

Parafissurina arctica (p. 70) **sp. n.** Arctic Ocean, **Green,** K. E.

Patellinella carinata **sp. n.** (p. 407) Great Barrier Reef, **Collins,** A. C.

Pelosina longicaudata (p. 71) **sp. n.** White Sea, **Mayer,** E. M.

Planispirinella involuta **sp. n.** (p. 374) Great Barrier Reef, **Collins,** A. C.

Planogyrina **gen. n.** (p. 50) of Globotruncanidae, type sp. *Ticinella gaultina* (Morozova) in Subbotina 1953, **Zakharova-Atabekyan,** L. V.

Proteonina cushmani (p. 345) **nom. nov.** pro *P. difflugiformis lagenarium* Cushman 1910 non *Haplophragmium lagenarium* Berthelin, Great Barrier Reef, **Collins,** A. C.

Pseudowebbinella **gen. n.** (p. 54) of Saccamminidae, type sp. *Crithionina goësi* Höglund 1947, White Sea, **Stschedrina,** Z. G.; *P. variabilis* (p. 73) **sp. n.** White Sea, **Mayer,** E. M.

Pyrgo phlegeri (p. 38) **sp. n.** Mississippi River mudlumps, **Andersen,** H. V.

Quinqueloculina crassicarinata (p. 359) **sp. n.** *Q. cuvieriana queenslandica* (p. 359) **subsp. n.** *Q. quinquecarinata* (p. 360) **sp. n.** Great Barrier Reef, **Collins,** A. C.; *Q. garrettii* (p. 30); *Q. tipswordi* (p. 31) **spp. n.** Mississippi River mudlumps, **Andersen,** H. V.; *Q. lecalvezae* (p. 173) **sp. n.** Étang de Thau, **Kuro,** G.

Radicula **gen. n.** (p. 51) of Hyperamminidae, type sp. *R. limosa* (p. 51) **sp. n.** Dröbak Sound, Norway, **Christiansen,** B.

Recurvoidella **gen. n.** (p. 53) of Lituolidae, genotype *R. parkerae* **sp. n.** (p. 53); San Diego, California, **Uchio,** T. (2).

Robertina australis **sp. n.** (p. 416) Great Barrier Reef, **Collins,** A. C.

Robulus atlanticus **nom. n.** pro *Cristellaria lucida* Cushman 1923, non *Robulina lucida* Silvestri 1880, **Barker,** R. W.; *R. lowmani* (p. 51) **sp. n.** Mississippi River mudlumps, **Andersen,** H. V.

Rosalina sidebottomi (p. 363) **nom. n.** pro *Discorbis rosacea* Sidebottom 1908, Mediterranean coast, **Said,** R. & **Kamel,** T.

Rotalina cultrata d'Orb. 1839, neotype should be rejected in order to retain *Globorotalia menardii* (d'Orb.), **Todd,** R. (2).

Rotamorphina ? involuta (p. 274) **sp. n.** E. Mediterranean, **Parker,** F. L. (1).

Saccammina Carpenter 1869, status, date and authorship of genus and type species discussed, type determined to be *S. sphaerica* Brady 1871, non Sars 1872, fixed by s. d. Cushman 1928, **Loeblich,** A. R. & **Tappan,** H. (2).

Saracenaria mexicana (p. 60); *S. lamptoni* (p. 61) **spp. n.** Mississippi River mudlumps, **Andersen,** H. V.

Schizammina arborescens (p. 271) **sp. n.** off Accra, Ghana, **Buchanan,** J. B.

Sigmoilina sellii (p. 158) **sp. n.** submarine core, Adriatic, **D'Onofrio,** S.

Sphaeroidinellopsis quadrangularis (p. 1278) Antilles-Caribbean **sp. n., Bermúdez,** P. J. (1).

Spiroloculina colomi (p. 354) **nom. n.** pro *S. limbata* Fornasini 1904 (o.d. d'Orbigny), **Said,** R. & **Kamel,** T.; *S. fragilis* **sp. n.** (p. 57); San Diego area, California, **Uchio,** T. (2).

Spiroplectammina bathyca **sp. n.** (p. 54); San Diego, California, **Uchio,** T. (2).

Spiroplectella earlandi **nom. n.** pro *Spiroplectella annectens* Brady 1884, Earland 1934, non *Textularia annectens* Parker & Jones 1863, **Barker,** R. W.

Spirosigmoilina bradyi (p. 365) *S. parri* (p. 365) **spp. n.** Great Barrier Reef, **Collins,** A. C.

Stetsonia horvathi (p. 72) **sp. n.** Arctic Ocean, **Green,** K. E.

Streblus convexus **sp. n.** (p. 414) Great Barrier Reef, **Collins,** A. C.

Textularia sandiegoensis **sp. n.** (p. 55) San Diego area, California, **Uchio,** T. (2).

Trichohyalus orfordensis (p. 87) **sp. n.** intertidal Oregon, **Hamlin,** W. H.

Triloculina littoralis (p. 369), *T. quadrata* (p. 369) **spp. n.** Great Barrier Reef, **Collins,** A. C.; *T. tricarinata costata* (p. 8) **var. n.** Travancore coast, **Amma,** J. S.

Trimosina milletti multispinata **subsp. n.** (p. 391) Great Barrier Reef, **Collins,** A. C.

Trochammina chitinosa **sp. n.** (p. 354) Great Barrier Reef, **Collins,** A. C.; *T. chitinosa* (p. 58), *T. discorbinoides* (p. 58), *T. labiata* (p. 59), *T. rhumbleri* (p. 59) **spp. n.** San Diego area, California, **Uchio,** T. (2); *T. umbilicata* (p. 81) **sp. n.** White Sea, **Mayer,** E. M.; *T. winogradovi* (p. 903) **sp. n.** Black Sea, **Didkovsky,** V. Y. (2).

Truncorotalia truncatulinoides nana (p. 75) **var. n.** Gulf of Venezuela, **Bermúdez,** P. J. (2).

Turbinoidae d'Orbigny 1840, invalid because not based upon the name of an included genus ; placed on the Official Index of Rejected and Invalid Family–Group Names, **Opinion 552.**

Valvulineria arctica (p. 71) **sp. n.** Arctic Ocean, **Green,** K. E.

Verneuilina europeum (p. 66) **nom. nov.** pro *Eggerella advena* Cushman 1937, **Christiansen,** B. ; *V. pharaonica* (p. 148) **nom. n.** pro *V. minuta* Said & Barakat 1959 non Wiesner 1931, **Said,** R. (2).

Virgulina apertura (p. 63), *V. delicatula* (p. 63), *V. sandiegoensis* (p. 60) ; **spp. n.** San Diego, California, **Uchio,** T. (2).

(d) **Heliozoa.**

Lists showing the total incidence of fauna in samples before and after scrub burning on a New Zealand hill side, **Stout,** J. D.

(e) **Radiolaria.**

Lists showing the total incidence of fauna in samples before and after scrub burning on a New Zealand hillside, **Stout,** J. D. ; Systematic study and reclassification of many Sphaeroidea, including rearrangement of families and subfamilies, **Hollande, A. & Enjumet,** M. ; Taxonomy of Phaeodaria, **Cachon-Enjumet,** M. (1). For entries concerning fossil genera see Section II.

Actinomma mediterranensis **sp. n.** (p. 110), Bay of Algiers, **Hollande, A. & Enjumet,** M. ; *A.* (*Actinomma*) *yossii* (p. 10) ; *A.* (*Actinommilla*) *capillaceum* (p. 11) ; *A.* (*A.*) *erinaceum* (p. 12) ; *A.* (*Actinommura*) *antarctica* (p. 12) **spp. n.** Antarctic sediments, **Nakaseko,** K.

Actinosphaera **gen. n.** (p. 109) of Rhizosphaeridae (*Haliomma* Haeckel *part.*), type sp. *A. capillaceum* Haeckel, 1862 (p. 109) Bay of Algiers, **Hollande, A. & Enjumet,** M.

Arachnostylus **gen. n.** (p. 93) of Heliasteridae, type sp. *A. tregouboffi* **sp. n.** (p. 93), Bay of Algiers, **Hollande, A. & Enjumet,** M.

Astrophacus viminalis **sp. n.** (p. 126), Bay of Algiers, **Hollande, A. & Enjumet,** M.

Bathysphaera **gen. n.** (p. 127) of Bathysphaeridae **fam. n.,** type sp. *B. pelagica* **sp. n.** (p. 127) Mediterranean, **Hollande, A. & Enjumet,** M.

Bathysphaeridae **fam. n.** (p. 127) of Collodairia pro *Bathysphaera* **gen. n.** q.v., **Hollande, A. & Enjumet,** M.

Cenosphaera (*Cyrtidosphaera*) *antarctica* (p. 5) ; *C.* (*C.*) *yossii* (p. 5), *C.* (*Phormosphaera*) *nagatai* (p. 6) **spp. n.** Antarctic sediments, **Nakaseko,** K.

Centrocubus mediterranensis (p. 121), *C. ruber* (p. 121), **spp. n.** Bay of Algiers, **Hollande, A. & Enjumet,** M.

Cladococcus lychnosphaerae **sp. n.** (p. 115) Bay of Algiers, **Hollande, A. & Enjumet,** M.

Cristallosphaera elongata **sp. n.** (p. 125) Bay of Algiers, **Hollande, A. & Enjumet, M.**

Cromyosphaera nipponica (p. 9) **sp. n.** Antarctic sediments, **Nakaseko,** K.

Diplosphaera ramosissima (p. 116) *D. cachoni* (p. 117) **spp. n.** Bay of Algiers, **Hollande, A. & Enjumet,** M.

Excentrodiscus **gen. n.** (p. 125) of Discoidae, type sp. *E. echinatus* **sp. n.** (p. 125), Bay of Algiers, **Hollande, A. & Enjumet,** M.

Gymnocella **gen. n.** (p. 220), no type sp. designated ; *G. tregouboffi* (p. 221), *G. helicoidalis* (p. 222), **spp. n.** ; Mediterranean, **Cachon-Enjumet,** M. (1).

Haeckeliella **gen. n.** (p. 119) of Macrosphaeridae, type sp. *H. macrodoras* Haeckel, 1887 (p. 119), Bay of Algiers, **Hollande, A. & Enjumet,** M.

Halocella borgerti **sp. n.** (p. 217) ; Mediterranean, **Cachon-Enjumet,** M. (1).

Haplosphaera **gen. n.** (p. 114) of Macrosphaeridae, type sp. *H. spherica* **sp. n.** (p. 114), Bay of Algiers, **Hollande, A. & Enjumet,** M.

Heliaster **gen. n.** (p. 91) of Heliasteridae, type sp. *H. hexagonium* **sp. n.** (p. 92), Bay of Algiers, **Hollande, A. & Enjumet,** M.

Hexacontium arachnoïdale **sp. n.** (p. 110), Bay of Algiers, **Hollande, A. & Enjumet,** M.

Hexadoras arachnoïdale **sp. n.** (p. 102), Bay of Algiers, **Hollande, A. & Enjumet,** M.

Hexastylus horridus **sp. n.** (p. 91), Bay of Algiers, **Hollande, A. & Enjumet,** M.

Liosphaera (*Oraspedomma*) *antarctica* (p. 4) **sp. n.** Antarctic sediments, **Nakaseko,** K.

Octodendron hamuliferum (p. 122), *O. arachnoïdale* (p. 122) **spp. n.,** Bay of Algiers, **Hollande, A. & Enjumet,** M.

Phaedina pelagica, P. echinata **spp. n.** (p. 214) ; Mediterranean, **Cachon-Enjumet,** M. (1).

Phaeodactylis **gen. n.,** no type sp. designated ; *P. stellaria, P. micropyla, P. nematophora* (p. 209), *P. hollandei, P. mediterranea* (p. 210), *P. radiata, P. fagei* (p. 211) **spp. n.,** Mediterranean, **Cachon-Enjumet,** M. (1).

Phaeopyla **gen. n.** (p. 207), monospecific with *P. sphaerica* **gen. n., sp. n.** (p. 207), Mediterranean, **Cachon-Enjumet,** M. (1).

Phaeosphaeridae **fam. n.** (p. 205) ; *Phaeosphaera* **gen. n.** (p. 205), no type sp. designated ; *P. pigmaea* **comb. n.** (p. 206) (=*Phaeocolla pigmaea*) ; *P. nucleoelongata* **sp. n.** (p. 206), Mediterranean, **Cachon-Enjumet,** M. (1).

Planktonnetta parthemopaea **sp. n.** (p. 224) ; Mediterranean, **Cachon-Enjumet,** M. (1).

Plegmosphaera (*Plegmosphaeromma*) *coronata* **sp. n.** (p. 103), Bay of Algiers, **Hollande, A. & Enjumet,** M.

Rhizosphaera helicoïdalis (p. 107), *R. algerica* (p. 107), *R. haeckeli* (p. 107), *R. spongiosa* (p. 108), *R. drymodes* (p. 108), **spp. n.** Mediterranean, **Hollande, A. & Enjumet,** M.

Spongodendron **gen. n.** (p. 99) of Spongosphaeridae, type sp. *S. macrodoras* **sp. n.** (p. 99), Bay of Algiers, **Hollande, A. & Enjumet,** M.

Spongodrymus gracilis **sp. n.** (p. 106), Bay of Algiers, **Hollande,** A. & **Enjumet,** M.

Spongoplegma rugosa (p. 104), *S. radians* (p. 104) **spp. n.,** Bay of Algiers, **Hollande,** A. & **Enjumet,** M.

Stigmosphaera cruciata **sp. n.** (p. 90), Bay of Algiers, **Hollande,** A. & **Enjumet,** M.

Stigmosphaerusa **gen. n.** (p. 90) of Stigmosphaeridae, type sp. *S. horrida* **sp. n.** (p. 90), Bay of Algiers, **Hollande,** A. & **Enjumet,** M.

Stigmostylus **gen. n.** (p. 90) of Stigmosphaeridae, type sp. *S. ferrusi* **sp. n.** (p. 90), Bay of Algiers, **Hollande,** A. & **Enjumet,** M.

Tetrapetalon **gen. n.** (p. 92) of Heliasteridae, type sp. *T. elegans* **sp. n.** (p. 93), Bay of Algiers, **Hollande,** A. & **Enjumet,** M.

Thalassoplegma **gen. n.** (p. 117) of Macrosphaeridae, type sp. *T. tenuis* (Mast, 1910) (p. 118), Bay of Algiers, **Hollande,** A. & **Enjumet,** M.

Thalassoxanthium spumidum (p. 128), *T. sphaeronucleolatum* (p. 128) **spp. n.,** Mediterranean, **Hollande,** A. & **Enjumet,** M.

Thecosphaera bulbosa (p. 111), *T. radians* (p. 111) **spp. n.,** Bay of Algiers, **Hollande,** A. & **Enjumet,** M.; *T.* (*Thecosphaeromma*) *antarctica* (p. 8) **sp. n.** Antarctic sediments, **Nakaseko,** K.

(f) Rhizomastigina.

[No record.]

(g) Mycetozoa.

Affinities of Mycetozoa, **Oye,** P. van. For entries concerning genera described by Loeblich, A. R. & Tappan, H. see under Section II.

(h) Acantharia.

For entries concerning fossil genera see Section II.

2. MASTIGOPHORA

Phytomastigina

General.

Problems in taxonomy of coloured flagellates, **Butcher,** R. W. **(1);** Phytoplanktonic spp. N. of New Zealand, **Norris,** R. E.; Phytomastigina of Hungarian river, **Uherkovich,** G.

(a) Chrysomonadida.

For entries concerning fossil genera see Section II.

Braarudosphaera bigelowi, re-examination, **Martini,** E. **(2).**

Cavosphaera **gen. n., comb. n.** (p. 292) of Holosphaeridae for *Zygosphaera divergens* Hal. & Mark; *Periphyllophora mirabilis* (Schill.), *Homozygosphaera triarcha* Hal. & Mark, *H. wettsteini* (Kampt.) Hal. & Mark, *H. tholifera* (Kampt.) Hal. & Mark, **Local, J. & Bernheim.**

Coccolithophoridae, microstructure of the skeleton, **Local, J. & Bernheim.**

Coccolithus cucullus (p. 287) **sp. n.,** Bay of Algiers, **Local, J. & Bernheim;** *C. doronicoides* **sp. n.** (p. 142), South Atlantic Ocean, **Black,** M. & **Barnes,** B.

Discoaster murrayi **sp. n.** (p. 145), South Atlantic Ocean, **Black,** M. & **Barnes,** B.

Discolithus phascolus **sp. n.** (p. 144), South Atlantic Ocean, **Black,** M. & **Barnes,** B.

Gephyrocapsa gracillima **sp. n.** (p. 290) Antarctic, **Local,** J. & **Bernheim;** *G. kamptneri* Defl. & Fert **sp. n.** (p. 155) Mediterranean, **Deflandre,** G. *in* **Deflandre,** G. & **Fert,** C.

Lohmannosphaera indicus **sp. n.** (p. 294), Indian Ocean, **Local,** J. & **Bernheim.**

Pontosphaera ditrematolitha **sp. n.** (p. 596), Canadian Arctic, **Bursa,** A. S.; *P. elleipsis* (p. 276), *P. margarita* (p. 276), *P. impliera* (p. 277), **spp. n.,** Bay of Algiers, **Local,** J. & **Bernheim.**

Pseudorhabdosphaera siliqua **comb. n.** (p. 293), Bay of Algiers (syn. *Rhabdosphaera siliqua* Local), **Local,** J. & **Bernheim.**

Rhabdolithus xiphos Defl. & Fert **cent. n.** (p. 156) Mediterranean, **Deflandre,** G. *in* **Deflandre,** G. & **Fert,** C.

Syracolithus antarcticus **sp. n.** (p. 279) Antarctic, *S. corii* Schiller **comb. n.** (p. 279), *S. verruca* Local **comb. n.** (p. 280), *S. uninodata* Schlauder **comb. n.** (p. 280), *S. oculata* Local **comb. n.** (p. 281), *S. aperta* Schlauder **comb. n.** (p. 281), *S. pastillusa* Local **comb. n.** (p. 281), *S. dorisa* Schl. **comb. n.** (p. 282), Bay of Algiers, *S.* (*Syracorhabdus*) **subgen. n.** (p. 283), *S.* (*S.*) *nodosa* Kamptner 1941, **comb. n.** (p. 283), *S.* (*S.*) *molischii* Schil. **comb. n.** (p. 284), Bay of Algiers, **Local,** J. & **Bernheim.**

Syracorhabdus **subgen. n.** (p. 283) of *Syracolithus* q.v., **Local,** J. & **Bernheim.**

Tetraporopsis pelagica **sp. n.** (p. 171), Pacific, **Norris,** R. E.

(b) Cryptomonadida.

[No record.]

(c) Dinoflagellata.

Dinoflagellates off Zanzibar, **Ballantine,** D.; Notes on some spp. off Mauretia and Senegal, **Margaleff,** R. **(3).** For entries concerning fossil genera see Section II.

Amphidinium aloxalocium (p. 176), *A. microcephalum* (p. 177) **spp. n.,** Pacific, **Norris,** R. E.

Ceratium tripos: subspecies defined allometrically, **López,** J.

Cochlodinium globosum **sp. n.** (p. 76), off Puerto Rico, **Margalef,** R. **(1).**

Exuviaella aequatorialis **sp. n.** (p. 28), Pacific, **Hasle,** G. R.

Glenodinium cristatum **sp. n.** (p. 47), W. Pacific, **Balech,** E. **(3);** *G. braarudii* **nom. n.** (p. 34) (*G. danicum* pro parte), Arctic, **Hasle,** G. R.

Gymnodinium aequatoriale (p. 32), *G. oceanicum* (p. 33), **spp. n.** Pacific, *G. cassiei* (p. 177), *G. diamphidium* (p. 178), *G. execheloutum* (p. 179), *G. leptum* (p. 180) **spp. n.,** Pacific, **Norris,** R. E.; *G. chukwanii* **sp. n.** (p. 217): off Zanzibar, **Ballantine,** D.; *G. intercalaris* **sp. n.** (p. 595): Canadian Arctic, **Bursa,** A. S.

Gyrodinium arcticum **sp. n.** (p. 592): Canadian Arctic, **Bursa,** A. S.; *G. apidiomorphum* (p. 181), *G. chiasmonetrium* (p. 182), *G. kofoidii* (p. 182), *G. phorkorium* (p. 183) **spp. n.**: Pacific, **Norris,** R. E.

Katodinium Fott (=*Massartia* Conrad) key to species, taxonomic study, *K. simile* (p. 331), Andelfingen, *K. spirodinioides* (p. 332), Gruyère Lake, *K. vernale* (p. 334), *K. viride* (p. 335), Agasul, **spp. n.,** Switzerland, **Christen,** H. R.

Peridinium crassipyram **nom. n.,** *P. peruvianum* **sp. n.** (p. 28): Peru, **Balech,** E. **(2)**; *P. mediocre* (p. 389); *P. curtum* (p. 393); *P. charcoti* (p. 394); *P. affine* (p. 395); *P. adeliense* (p. 396) **spp. n.** Antarctic, **Balech,** E. **(4).**

Protaspis tanyopsis **sp. n.** (p. 175): Pacific, **Norris,** R. E.

(d) **Euglenoidida.**

Euglenoidida of British coastal waters, **Butcher,** R. W. **(2)**; Euglenids from brackish water, Albania, **Komárek,** J.

Euglena caballeroi (p. 55); *E. confusa* (p. 56); *E. flagellata* (p. 57); *E. spinifera* (p. 57); *E. sulcata* (p. 60); **spp. n.** from Mexico, **Pérez Reyes,** R. **(2).**

Euglenopsis zabra **sp. n.** (p. 173), Pacific, **Norris,** R. E.

(e) **Chloromonadida.**

[No record.]

(f) **Phytomonodida.**

Sphaerellopsis hyalina **sp. n.** (p. 336), Germany, **Pringsheim,** E. G.

ZOOMASTIGINA

(g) **Protomonadida.**

Use of physiological data in the taxonomy of Trypanosomidae, **Zeledon,** R. **(2)**; Further synonymy of trypanosomes from African freshwater fish, **Baker,** J. R. **(1).**

Blastocrithidia euschisti **sp. n.** (p. 201) from American bug, **Hanson,** W. L. & **McGhee,** R. B.

Chilomastix megamorpha **sp. n.** (p. 159), **Abraham,** R. **(2)**; *C. equi* **sp. n.** (p. 291) from Indian horse, **Abraham,** R. **(4).**

Crithidia acanthocephali **sp. n.** (p. 201) from American bug, **Hanson,** W. L. & **McGhee,** R. B.

Hexamastix lacertae **sp. n.** (p. 151), **Janakidevi,** K. **(1)**; *H. dobelli* **sp. n.** (p. 294) from Indian tortoise, **Janakidevi,** K. **(4).**

Leptomonas leptoglossi **sp. n.** (p. 201) from American bug, **Hanson,** W. L. & **McGhee,** R. B.

Monocercomonas ruminantium **comb. n.** (p. 108) for *Trichomonas ruminantium* and *Tricercomitus ruminantium,* **Levine,** N. D. **(1).**

Protrichomonas ruminantium **comb. n.** (p. 109) for *Trichomastix ruminantium,* **Levine,** N. D. **(1).**

Trypanosoma kudeckei **sp. n.** (p. 123) from voles, **Krampitz,** H. E. **(2)**; *T. mesnil-brimonti* **sp. n.** (p. 24), **Deane,** L. **M.**; *T. ichneumoni* **sp. n.** (p. 39), **Grewal,** M. S. **(3).**

(h) **Trichomonadida.**

Trichomonas parlovi **nom n.** (p. 97) for *Trichomonas bovis,* **Levine,** N. D. **(1)**; *T. longiflagellata* **sp. n.** (p. 431), **Hiregaudar,** L. S. & **Ray,** H. N.; *T. caballi* **sp. n.** (p. 164), **Abraham,** R. **(1).**

Tritrichomonas lissemys **sp. n.** (p. 411), **Janakidevi,** K. **(3)**; *T. criceti* **comb. n.** (p. 95) for *Trichomonas cricetus, T. enteris* **comb. n.** (p. 93) for *Trichomonas enteris,* **Levine,** N. D. **(1).**

(i) **Hypermastigida.**

[No record.]

(j) **Diplomonadida.**

Giardia chinchillae for *Giardia duodenalis* race *chinchillae* (p. 122), **Levine,** N. D. **(1).**

(k) **Polymonadida.**

[No record.]

FLAGELLATA INCERTAE SEDIS

Opalinida.

Opalina pali **sp. n.** (p. 167), **Grewal,** M. S. **(1).**

3. SPOROZOA

General.

Systematic problems of the Sporozoa, **Levine,** N. D. **(2)**; Discussion of systematic position of Cnidosporidia, **Janiszewska,** J.

COCCIDIOMORPHA

(a) **Gregarinida.**

Gregarinida associated with holothurians, **Changeux,** J.-P.; Classification of Cephalina, **Chakravarty,** M. M.

Actinocephalus thyropygi **sp. n.** (p. 172) from Indian millipedes, **Rodgi,** S. S. & **Ball,** G. H.

Bothriopsides graphoderi **sp. n.** (p. 398), *B. acilii* **sp. n.** (p. 398) from beetles, **Baudouin,** J.

Bulbocephalus indicus **sp. n.** (p. 120) from Indian cricket, **Narain,** N.

Clavicephalus madagascariensis **gen. n., sp. n.** (p. 27), **Théodoridès,** J. **(3).**

Cystobia grassei **sp. n.** (p. 28), haemal sinus of *Holothuria tubulosa* and *H. stellati,* **Changeux,** J.-P.

Gregarina heterochirae **sp. n.** (p. 11), *G. pierrei,* **sp. n.** (p. 15), **Théodoridès,** J. **(3).**

Monocystis cambrensis **sp. n.** (p. 523), *M. lanceata* **sp. n.** (p. 529) from Welsh earthworms, **Rees,** B. **(1)**;

M. chagasi **sp. n.** (p. 230), **Adler,** S. & **Mayrink,** W.

Stenophora conjugata **sp. n.** (p. 163), *S. procidua* **sp. n.** (p. 165), *S. falciformis* **sp. n.** (p. 169), *S. cassidiformis* **sp. n.** (p. 172) from Indian millipedes, **Rodgi,** S. S. & **Ball,** G. H.; *S. gryllodes-sigillatae* **sp. n.** (p. 118) from Indian crickets, **Narain,** N.

Stictospora kurdistana **sp. n.** (p. 20) from Persian beetle, **Théodoridès,** J. **(2).**

Stylocephalus pauliani **sp. n.** (p. 18), *S. filiformis* **sp. n.** (p. 24), **Théodoridès, J.** (3).

(b) **Coccidiida.**

Cryptosporidium tyzzeri **nom. n.** (p. 245) pro parte *C. parvum*, **Levine, N. D.** (1).

Eimeria vinogradovi **sp. n.** (p. 26), *E. zulfiansis* **sp. n.** (p. 26), *E. sadarktica* **sp. n.** (p. 27), *E. jurschinaensis* **sp. n.** (p. 28), *E. musajevi* **sp. n.** (p. 28), *E. tasakendica* **sp. n.** (p. 29), *E. bistratum* **sp. n.** (p. 30), *E. arabiana* **sp. n.** (p. 30), *E. poljanski* **sp. n.** (p. 31), **Veisov, A. M.**; *E. myocastoris* **sp. n.** (p. 258), *E. quiyarum* **sp. n.** (p. 258), **Ringuelet, R. A. & Coscarón, S.**; *E. stefanskii* **sp. n.** (p. 28) from Polish hares, **Pastuszko, J.**; *E. migratoria* **sp. n.** (p. 972), *E. immodulata* **sp. n.** (p. 972), *E. cricetuli* **sp. n.** (p. 973), *E. jardimlinica* **sp. n.** (p. 973), *E. arusica* **sp. n.** (p. 974), **Musayev, M. A. & Veisov, A. M.** (3); *E. erythrourica* **sp. n.** (p. 53), *E. schamchorica* **sp. n.** (p. 54), *E. achburnica* **sp. n.** (p. 55), *E. symgaitica* **sp. n.** (p. 55), *E. martunica* **sp. n.** (p. 57) from Russian rodent, **Musaev, M. A. & Alieva, F. K.**; *E. khurodensis* synonymous with *E. bukidnonensis* (p. 171), *E. orlovi* synonymous with *E. brasiliensis* (p. 170), *E. boehmi* synonymous with *E. brasiliensis* (p. 170), *E. ildefonsoi* synonymous with *E. auburnensis*, *E. ah-sa-ta* emended to *E. ahsata* (p. 179), *E. nina-kohl-yakimovi* emended to *E. ninakohlyakimovi* (p. 184), **Levine, N. D.** (1); *E. couesii* **sp. n.** (p. 100), **Kruidenier, F. J., Levine, N. D. & Ivens, V.**; *E. nagpurensis* **sp. n.** (p. 135), *E. punjabensis* **sp. n.** (p. 137), *E. ruficaudati* **sp. n.** (p. 138), **Gill, B. S. & Ray, H. N.**; *E. dunsingi* **sp. n.** (p. 31), **Farr, M. M.** (2); *E. pavonina* **sp. n.** (p. 61), **Banik, D. C. & Ray, H. N.**

Haemocystidium revived as genus, **Mackerras, M. J.**

Haemogregarina hemiscyllii **sp. n.** (p. 130), *H. tetrasdontis* **sp. n.** (p. 136) from Australian fish, **Mackerras, M. J. & Mackerras, I. M.**; *H. heteronotae* **sp. n.** (p. 78); *H. palmeri* **sp. n.** (p. 80); *H. taeniolati* **sp. n.** (p. 82), *H. cunninghami* **sp. n.** (p. 83); *H. egerniae* **sp. n.** (p. 84); *H. obscura* **sp. n.** (p. 84); *H. johnstoni* **sp. n.** (p. 87); *H. breinli* **sp. n.** (p. 88); *H. gilruthi* **sp. n.** (p. 88); *H. stegonoti* **sp. n.** (p. 98); *H. boigae* **sp. n.** (p. 99); *H. australis* **sp. n.** (p. 102); *H. eidsveldensis* **sp. n.** (p. 102); *H. denisoniae* **sp. n.** (p. 104); *H. aspidomorphi* **sp. n.** (p. 104), **Mackerras, M. J.**; *H. irkalukpiki* **sp. n.** (p. 545) from Arctic char, **Laird, M.** (3).

Hepatozoon procyonis **sp. n.** (p. 360) from American raccoon, **Richards, C. S.**

Isospora fennechi **sp. n.** (p. 131), **Prasad, H.** (1); *I. hoogstraali* **sp. n.** (p. 56), *I. bigemina* **var. n.** (p. 57), *I. africana* **sp. n.** (p. 57) from zorille, **Prasad, H.** (3).

Lankesterella garnhami synonymous with *L. adiei* (p. 247), **Levine, N. D.** (1).

(c) **Haemosporidida.**

Revised classification of Haemosporidida, **Fallis, A. M. & Bennett, G. F.**; Review of the systematics of malarial parasites of *Macacus cyclopis*, **Hsieh, H.**

Babesiosoma stableri **sp. n.** (p. 382) from American frogs, **Schmittner, S. M. & McGhee, R. B.**

Haemoproteus silvai **sp. n.** (p. 770), *H. santosdiasi* **sp. n.** (p. 773), *H. piresi* **sp. n.** (p. 774), **Son, C. K.**; *H. meleagridis* **sp. n.** (p. 279), **Levine, N. D.** (1).

Leucocytozoon andrewsi syncnymous with *L. caulleryi* (p. 280), *L. schuffneri* synonymous pro parte *L. caulleryi* and *L. sabrazesi* (p. 280), **Levine, N. D.** (1).

Nuttallia danii **sp. n.** (p. 244) from gerbil, **Tsur, I., Hadani, A. & Pipano, E.**

Plasmodium osmaniae **sp. n.** (p. 140) from Indian monkey, **Shortt, H. E.** etc.; *P. egerniae* **sp. n.** (p. 108) from lizard, **Mackerras, M. J.**

SARCOSPORIDIA

[No record.]

CNIDOSPORIDIA

(e) **Myxosporidida.**

[No record.]

(f) **Microsporidida.**

Nosema curvidentis **sp. n.** (p. 325), **Weiser, J.**

Thelohania thomsoni **sp. n.** (p. 260), **Kramer, J. P.** (2).

(g) **Actinomyxidida.**

[No record.]

HAPLOSPORIDIA

(h) **Haplosporidida.**

Haplosporidium pickfordi **sp. n.** (p. 320) from snails, **Barrow, J. A., Jr.**

SPOROZOA INCERTAE SEDIS

Besnoitia tarandi **comb. n.** (p. 340) for *Fibrocystis tarandi*, **Levine, N. D.** (1).

4. CILIATA

General.

Seasonal and vertical distribution of species in Lake Ösbysjön, Djursholm, **Pejler, B.**; List of species collected in the campus of Costa Rica University, **Ruiz, A.** (1); Lists showing the total incidence of fauna in samples before and after scrub burning on a New Zealand hillside, **Stout, J. D.**; Taxonomy and nomenclature of ciliates, **Corliss, J. O.** (1); Pelagic ciliates, Antarctica, **Hada, Y.**; Sand ciliates (France), **Vacelet, E.** (1), (2).

HOLOTRICHA

(a) **Gymnostomatida.**

Ciliates of brackish pools in Finland, **Reuter, J.**; Revision of *Amphileptus*, *Hemiophrys* and *Lionotus*, **Canella, M. F.** (2).

Chilodontopsis gibberum **sp. n.** (p. 12): Peru, **Sarmiento, L. & Guerra, H.**

Coleps spinosa, *C. grandis*, **spp. n.** (p. 8) from sand (France), **Vacelet, E.** (3).

Enchelyodon granosus **sp. n.** (p. 85) Roumania, **Lepşi, I.** (2).

Holophyra sphagneti **sp. n.** (p. 84) Roumania, **Lepşi, I.** (2).

Loxophyllum quadricostatum, *L. hyalinum* **spp. n.** (p. 16) from sand (France), **Vacelet**, E. (2).

Lynchella psammophila **sp. n.** (p. 10) from sand (France), **Vacelet**, E. (3).

Nassula lucida **sp. n.** (p. 10) Finland, **Reuter**, J. ; *N. nigra* **sp. n.** (p. 17), sand, France, **Vacelet**, E. (2).

Pseudoprorodon spiralis **sp. n.** (p. 9) Finland, **Reuter**, J.

Remanella multicorpusculata **sp. n.** (p. 8) from sand (France), **Vacelet**, E. (3).

Spathidium mirum **sp. n.** (p. 86) Roumania, **Lepşi**, I. (2).

(b) **Trichostomatida.**

Paraisotricha equi **sp. n.**, **Abraham**, R. (3).

Microthorax elongatus **sp. n.** (p. 86) Roumania, **Lepşi**, I. (2).

(c) **Chonotrichida.**

[No record.]

(d) **Suctorida.**

Taxonomy and phylogeny of Suctorida, **Kormos**, J. & **Kormos**, K. ; Morphology and biology of Suctoria, **Canella**, M. F. (1).

(e) **Apostomatida.**

[No record.]

(f) **Astomatida.**

Anoplophrya Stein 1860 morphology and taxonomy, new ciliary organelle described, **Lom**, J. (6).

Helella rhizodrili **gen. n., sp. n.** (p. 247) from Polish oligochaete, **Kaczanowski**, A. (1).

Lomiella **gen. n.**, no type sp. designated, from *Dichogaster inermis* (France), **Puytorac**, P. de (2).

Maupasella Cépède, 1910, morphology and taxonomy, *M. cépèdei* **f. *castanei* form. nov.** (p. 177) in the intestine of *lumbricus castaneus* at Prague, **Lom**, J. (6).

Metaradiophrya Heidenreich, 1935, morphology and taxonomy, **Lom**, J. (6) ; *M. gardneri* **sp. n.** (p. 228) from Welsh earthworm, **Rees**, B. (2).

Radiophryoides puytoraci **sp. n.** (p. 248) in gut of oligochaete, *Aelosoma travancorense* (India), **Vanamala Naidu**, K.

(g) **Hymenostomatida.**

The peniculine Hymenostomatida (monograph), **Roque**, M. (1).

Dogielella sphaerii : tetrahymenine characters, **Lom**, J. (5).

Entodiscus borealis (Trichostomatida) transferred to Tetrahymenina (Hymenostomatida), **Berger**, J. (2).

Entorhipidium (Trichostomatida) transferred to Tetrahymenina (Hymenostomatida), **Berger**, J. (3).

Frontonia cana **sp. n.** (p. 12) Finland, **Reuter**, J.

Frontoniella marini **sp. n.** (p. 1), France, and possible identity with *Frontonia aberrans* Drajesco, **Roque**, M. (2).

Madsenia indomita (Trichostomatida or unassigned position in Tetrahymenina) to Cohnolembidae (Hymenostomatida), **Berger**, J. (2).

Ophryoglena hypertrophica **sp. n.** (p. 325) : ? France, **Savoie**, A.

Paramecium aurelia varieties in Poland, **Kosciusko**, H., **Komala**, Z. & **Humiczewska**, M. ; **Komala**, Z., **Kosciusko**, H. & **Humiczewska** M. ; Varieties of *Paramecium aurelia* in Bulgaria, **Komala**, Z.

Pseudomicrothorax gellerti **sp. n.** (p. 15), Mt. Lake Biological Station U.S.A., **Thompson**, J. C., Jr. (3).

(h) **Thigmotrichida.**

Systematic relationships within Sphenophryidae, **Dobrzańska**, J. (1).

Hypocomella katharinae **sp. n.** (p. 60) from ctenidia of *Katharina tunicata* (Oregon coast, N. America), **Kozloff**, E. N.

Ignotocoma sabellarum **gen. n., sp. n.** (p. 62) on peristomial cirri of *Schizobranchia insignis* and *Eudistylia vancouveri* (Polychaeta) off Oregon coast, **Kozloff**, E. N.

(i) **Peritrichida.**

Systematics of Peritrichida discussed, **Kralik**, U.

Orbopercularia raabei **sp. n.** (p. 233) from Polish *Talitrus*, **Dobrzańska**, J. (2).

Rhabdostyla scyphidiformis **sp. n.** (p. 229), ectoparasitic *Rana esculenta* branchial sac, Czechoslovakia, **Vávra**, J.

Semitrichodina conveza **sp. n.** (p. 273) from snail, **Kazubski**, S. L.

Trichodina of fishes (Czechoslovakia) : fuller details of spp. previously noted, **Lom**, J. (3) ; *Trichodina* : taxonomy and host relations of *T. reticulata* and *T. domerguei* **f. *latispina***, **Lom**, J. (1) ; *T. tranquillis* **sp. n.** (p. 146) from Polish snail, **Raabe**, J. & **Raabe**, Z. ; *T. polycirra* **sp. n.** (p. 173) in urinary tract of *Rutillus rutillus* (S. Bohemia), **Lom**, J. (2) ; *T. vancouverense* **sp. n.** (p. 839), *T. decipiens* **sp. n.** (p. 840) from Canadian shellfish, **Laird**, M. (5).

Tripartiella melanogrammi **sp. n.** (p. 1137) on *Melanogrammus aeglefinas*, Barents Sea ; *T. rhombi* **sp. n.** (p. 1138) on *Rhombus maximus*, Baltic Sea, **Stein**, G. A.

Urceolaria karyodactyla **sp. n.** (p. 827) from mantle cavity and ctenidia of *Isnochiton ruber* (Canada), **Laird**, M. (2).

SPIROTRICHA

(j) **Heterotrichida.**

Blepharisma velatum **sp. n.** (p. 17), sand, France, **Vacelet**, E. (2).

Condylostoma (sp. n. not named) in sand (France), **Vacelet**, E. (3).

Nyctotherus hardwicki **sp. n.** (p. 155), **Janakidevi, K. (2).**

Peritromus minimus, P. eurystomus **spp. n.** (p. 17), sand, France, **Vacelet, E. (2).**

Pseudoblepharisma lacustris **sp. n.** (p. 89) Roumania, **Lepşi, I. (2).**

(k) **Oligotrichida.**
[No record.]

(l) **Tintinnida.**
Tintinnida off Puerto Rico, **Durán, M.** For entries concerning fossil genera see Section II.

Helicostomella antarctica **sp. n.** (p. 143), Antarctica, **Hada, Y.**

Metacyclis tropica **sp. n.** (p. 112), Puerto Rico, **Durán, M.**

Protocymatocyclis pseudoconica **sp. n.** (p. 143), Antarctica, **Hada, Y.**

Tintinnidea **superfam. n.** (p. 29) of Tintinnina, for all recent species and a Jurassic and Pliocene form, with organic shells, **Bonet, F.**

Tintinnopsis patens **sp. n.** (p. 41), Pacific, **Hasle, G. R.**

(m) **Entodiniomorphida.**
Diplodinium bengalensis **sp. n.** (p. 58), *D. l[illegible]gi-nucleatum* **sp. n.** (p. 59) from goat, **Choudhury, A. C., Chowdhury, A. K. & Chatterjee, T. P.**

Entodinium harendrai **sp. n.** (p. 52), *E. mukundai* **sp. n.** (p. 54), *E. jumnapari* **sp. n.** (p. 55), *E. minutum* **sp. n.** (p. 55) from Indian goats, **Choudhury, A. C., Chowdhury, A. K. & Chatterjee, T. P.**

Polyplastron belgachiense **sp. n.** (p. 65) from goats, **Choudhury, A. C., Chowdhury, A. K. & Chatterjee, T. P.**

(n) **Odontostomatida.**
[No record.]

(o) **Hypotrichida.**
Revision of order Hypotrichida, **Fauré-Fremiet, E. (3).**

Aspidisca maxima **sp. n.** (p. 17), sand, France, **Vacelet, E. (2)**; *A. caudata* **sp. n.** (p. 11) from sand (France), **Vacelet, E. (3).**

Certesia ovata **sp. n.** (p. 56), sand, France, **Vacelet, E. (1).**

Euplotes psammophilus **sp. n.** (p. 10) from sand (France), **Vacelet, E. (3)**; *E. eurystomus excavatus* **var. n.** (p. 140) Czechoslovakia, **Buchar, J.**

Gastrostyla hebbalica **sp. n.** (p. 238), India, **Rajasekarasetty, M. R. & Kasturi Bai, A. R.**

Holosticha kessleri aquae-dulcis **var. n.** (p. 139) Czechoslovakia, **Buchar, J.**

Pleurotricha variabilis **sp. n.** (p. 17), Finland, **Reuter, J.**

Steinia ovalis **sp. n.** (p. 19) Finland, **Reuter, J.**; *S.* [=*Oxytricha*] *fenestrata* **sp. n.** (p. 90) Roumania, **Lepşi, I. (2).**

Trichotaxis rubentis, T. villaensis **spp. n.** (p. 18), Peru, **Sarmiento, L. & Guerra, H.**

Uronychia festinans **sp. n. prov.** (p. 91) Roumania, **Lepşi, I. (2).**

PROTISTA INCERTAE SEDIS

Birrimarnoldia **gen. n.** (p. 1054); *B. antiqua* **comb. n.** for *Arnoldia antiqua*, a precambrian fossil (? Foraminifera), **Hovasse, R. & Couture, R.**

For entries concerning fossil genera see Section II.

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